

Amendments to the Claims:

Claims 41 to 52 are cancelled and claims 53 to 64 are added as set forth below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1 to 52 (Cancelled).

53. (New) A surgical microscope comprising:

an ocular through which an object can be viewed;

a tubular lens disposed between said ocular and said object;

an objective disposed between said tubular lens and said
5 object;

said tubular lens and said objective conjointly defining a
parallel beam path along which parallel beam rays pass;

an image data supply for supplying image data;

an image projection module connected to said image data
10 supply and including an image display unit for displaying said
image data;

said image projection module further including a lens
assembly for transmitting said image data to said parallel beam
path;

15 a first beam splitter mounted in said parallel beam path for
receiving all of said parallel beam rays;

said first beam splitter being disposed between said tubular lens and said objective for receiving said image data transmitted from said display unit and passing said image data into said
20 parallel beam path;

an image recording module for recording said image data and an object image of said object;

said image recording module including an image sensor;
a second beam splitter mounted in said parallel beam path
25 for likewise receiving said parallel beam rays;

said second beam splitter being disposed between said first beam splitter and said objective for receiving said object image directly from said objective and for directing said object image from said parallel beam path onto said image sensor;

30 said first and second beam splitters being the only beam splitters mounted in said parallel beam path;

said image sensor generating an image signal from said object image;

said image recording module further including a mixer
35 connected to said image sensor for receiving said image signal and being connected to said image data supply for receiving said image data to mix said image signal and said image data and generate an output signal;

a video-recorder/monitor connected to said mixer for
40 receiving said output signal for display to a surgeon; and,

a shutter interposed between said first beam splitter and said object to suppress said object image to facilitate viewing said image data in said ocular without said object image.

54. (New) The surgical microscope of claim 53, said lens assembly including an imaging optic having a plano-convex lens and a plano-concave lens mounted downstream of said image display unit for transmitting said image data to said first beam
5 splitter.

55. (New) Surgical microscope of claim 54, wherein said plano-concave lens is disposed downstream of said image display unit and said plano-convex lens is interposed between said plano-concave lens and said first beam splitter.

56. (New) The surgical microscope of claim 55, wherein said image display unit is an LCD image display unit.

57. (New) The surgical microscope of claim 56, wherein said plano-convex lens has a first focal length and said plano-concave lens has a second focal length; and, the ratio of said first focal length and said second focal length lies within a range
5 from 1.9 to 2.5.

58. (New) The surgical microscope of claim 57, wherein said plano-convex lens is a first plano-convex lens; said image projection unit further includes a concave-convex lens and a second plano-convex lens; and, said first plano-convex lens, said
5 plano-concave lens, said concave-convex lens and said second plano-convex lens all are arranged between said LCD image display unit and said first beam splitter.

59. (New) The surgical microscope of claim 56, wherein the brightness of said LCD image display unit is increased by providing a time-dependent sequential illumination of a reflection display with only a single color.

60. (New) The surgical microscope of claim 56, wherein said LCD image display unit includes a reflection display illuminated sequentially with different colors as a function of time.

61. (New) The surgical microscope of claim 53, wherein said image sensor is a CCD chip.

62. (New) The surgical microscope of claim 53, wherein said image display unit incorporates a reflection display driven at a clock frequency and includes a rotatably mounted filter wheel for illuminating said reflection display; and, a device for
5 synchronizing the rotation of said filter wheel with said clock frequency of said reflection display.

63. (New) The surgical microscope of claim 53, wherein said image display unit has a reflection display driven at a clock frequency and includes a rotatably mounted filter wheel for illuminating said reflection display; and, a device for
5 synchronizing the rotation of said filter wheel with said clock frequency of said reflection display.

64. (New) The surgical microscope of claim 53, wherein said mixer is connected directly to said image data supply so as to

receive said image data without said image data passing through one of said first and second beam splitters.